

Title (en)

Integration of surgical instrument and display device for supporting image led surgery

Title (de)

Integration von chirurgischem Instrument und Anzeigevorrichtung zur Unterstützung der bildgeführten Chirurgie

Title (fr)

Intégration d'un instrument chirurgical et dispositif d'affichage destiné à l'assistance de la chirurgie assistée par imagerie

Publication

**EP 2455038 B1 20150401 (DE)**

Application

**EP 12155187 A 20081021**

Priority

- EP 12155187 A 20081021
- EP 08167095 A 20081021

Abstract (en)

[origin: EP2179703A1] The surgical instrument (10) has handle portion (11), mounting portion and a functional portion and/or tip (19). A display device (13) is provided on the instrument, to display symbols or characters. The display device enables displays to assist the image guided and/or navigation assisted surgery. An independent claim is included for surgical instrument navigation method.

IPC 8 full level

**A61B 19/00** (2006.01); **A61B 17/00** (2006.01); **A61B 19/08** (2006.01)

CPC (source: EP US)

**A61B 17/00** (2013.01 - US); **A61B 34/20** (2016.02 - EP US); **A61B 90/39** (2016.02 - EP US); **A61B 46/10** (2016.02 - EP US); **A61B 2017/00128** (2013.01 - EP US); **A61B 2017/00199** (2013.01 - EP US); **A61B 2017/0023** (2013.01 - EP US); **A61B 2017/00477** (2013.01 - EP US); **A61B 2034/2048** (2016.02 - EP US); **A61B 2034/2051** (2016.02 - EP US); **A61B 2034/2055** (2016.02 - EP US); **A61B 2034/2065** (2016.02 - EP US); **A61B 2034/2068** (2016.02 - EP US); **A61B 2034/252** (2016.02 - EP US); **A61B 2090/065** (2016.02 - EP US); **A61B 2090/0818** (2016.02 - EP US); **A61B 2090/372** (2016.02 - EP US); **A61B 2090/3983** (2016.02 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 2179703 A1 20100428**; **EP 2179703 B1 20120328**; EP 2455038 A2 20120523; EP 2455038 A3 20120620; EP 2455038 B1 20150401; US 10368851 B2 20190806; US 11464502 B2 20221011; US 2010100081 A1 20100422; US 2013218142 A1 20130822; US 2017281297 A1 20171005; US 2019142401 A1 20190516; US 8734432 B2 20140527; US 9730680 B2 20170815

DOCDB simple family (application)

**EP 08167095 A 20081021**; EP 12155187 A 20081021; US 201313845943 A 20130318; US 201715623320 A 20170614; US 201816167022 A 20181022; US 58123309 A 20091019